DETAILED ACTION

Response to Amendments

No claims have been amended. Claim 9 has been canceled. Claims 1-8 and 10-13 are pending.

Per Examiner's Amendment

Claims 1, 11 and 12 have been amended. Claims 3 and 13 have been canceled.

Claims 1, 2, 4-8 and 10-12 are allowed.

Response to Arguments

Applicant's arguments (see Remarks pages 5-6 filed 7/20/2007) with respect to claims 1,
and 12 have been fully considered and are persuasive. The rejections of claims 1-8 and 10-13
have been withdrawn

Examiner's Amendment

II. An Examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to Applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this Examiner's amendment was given in a telephone interview with Atty. Richard Baker on 9/26/2007. The application has been amended as follows:

• Claim 1 (currently amended): A method for determining the topology of a network when a network tree, built from data relating to discovered devices of the network, includes one or more unresolved branches, the method comprising:

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for each unresolved branch of the network tree, attempting to determine the type of each of the discovered network devices on the branch,

if the type of each discovered network device on the branch is determined to be <u>an endstation</u> type a non connecting network device, inferring that an undiscovered connecting device is present on the branch; and

if the type of at least one discovered network device on the branch is not an an endstation type a non-connecting network device, leaving the topology of the branch unresolved; and

presenting the determined network topology as a network map, the map comprising icons representing network devices and lines representing network links, wherein the inferred connecting device is represented differently from a discovered connecting device.

Claim 11 (currently amended): A computer readable medium including a computer program for determining the topology of a network when a network tree, built from data relating to discovered devices of the network, includes one or more unresolved branches, the program comprising the steps of:

attempting to determine the type of each of the discovered network devices on an unresolved branch of the network tree;

inferring that an undiscovered connecting device is present on the unresolved branch if the type of each discovered network device on the branch is determined to be <u>an endstation type a non-connecting</u> network device; and

if at least one discovered network device on the unresolved branch is determined not to be <u>an</u> endstation type <u>a non-connecting network device</u>, leaving the topology of the branch unresolved; and

presenting the determined network topology as a network map, the map comprising icons representing network devices and lines representing network links, wherein the inferred connecting device is represented differently from a discovered connecting device.

- Claim 12 (currently amended): A network management apparatus for determining the topology of a network, the apparatus comprising;
 - a memory for receiving and storing data relating to discovered devices on the network;
- a processor, coupled to the memory, the processor configured to build a network tree using the received data, and, for each unresolved branch of the network tree, to attempt to determine the type of each of the discovered network devices on the branch;

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wherein, if the type of every discovered network device on an unresolved branch is determined to

be an endstation type a non-connecting network device, the processor infers that an undiscovered

connecting device is present on the branch, and if at least one discovered network device on the

unresolved branch is determined not to be an endstation type a non-connecting network device, the

processor does not infer the topology of the unresolved branch of the network; and

means for presenting a network map showing the determined topology of the network selected

from the group consisting of a display and a printer.

Cancel: Claims 3 and 13.

Reasons for Allowance

III. This communication warrants no Examiner's reason for allowance, as Applicant's reply

makes evident the reason for allowance, satisfying the record as whole as required by rule 37

CFR 1.104 (e). In this case, the substance of Applicant's comments in the Remarks filed on

7/20/2007 with respect to the claim limitations sufficiently point out the reason claims are

patentable over the prior art of record. Thus, the reason for allowance is in all probability evident

from the record and no statement of an Examiner's reason for allowance is necessary (see MPEP

13202.14).

Any comments considered necessary by Applicant must be submitted no later than the

payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

Such submissions should be clearly labeled "Comments on Statement of Reasons for

Allowance."

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Conclusion

IV. Any inquiry concerning this communication or earlier communications from the

Examiner should be directed to Kristie Shingles whose telephone number is 571-272-3888. The

Examiner can normally be reached on Monday-Friday 8:30-6:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the Examiner's

supervisor, Rupal Dharia can be reached on 571-272-3880. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Kristie Shingles Examiner

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